

Mult., Div. & Rationalizing Radicals

Name _____

HW 28H

© 2011 Kuta Software LLC. All rights reserved.

Date _____ Period _____

Simplify.

1) $-5\sqrt{5} \cdot \sqrt{8}$

2) $-5\sqrt{2} \cdot \sqrt{2}$

3) $\sqrt{3} \cdot 4\sqrt{12}$

4) $\sqrt{5} \cdot \sqrt{5}$

5) $\sqrt{5}(\sqrt{2} + \sqrt{3})$

6) $\sqrt{3}(-3\sqrt{3} + 5)$

7) $5\sqrt{6}(\sqrt{5} + 4\sqrt{2})$

8) $-5\sqrt{6}(\sqrt{2} + 5)$

9) $(5\sqrt{2} - 4)(-\sqrt{2} + 1)$

10) $(\sqrt{2} - 3\sqrt{5})(\sqrt{2} + 3\sqrt{5})$

11) $(-3 + \sqrt{2})(3 + \sqrt{2})$

12) $(\sqrt{3} - \sqrt{2})(\sqrt{3} + \sqrt{2})$

13) $\frac{5\sqrt{20}}{\sqrt{45}}$

14) $\frac{5\sqrt{10}}{5\sqrt{4}}$

15) $\frac{5\sqrt{4}}{3\sqrt{16}}$

16) $\frac{5\sqrt{5}}{4\sqrt{45}}$

13. Use the quadratic formula to find the zeros of the function $n^2 - 28 = -3n$

14. Use the quadratic formula to find the roots of the function $a^2 = 108 - 3a$

15. Find the roots of the equation by factoring:

$$11v = -3v^2 + 4$$

16. Find the **sum** of the solutions of the equation by factoring:

$$-6 = -2x^2 - 11x$$

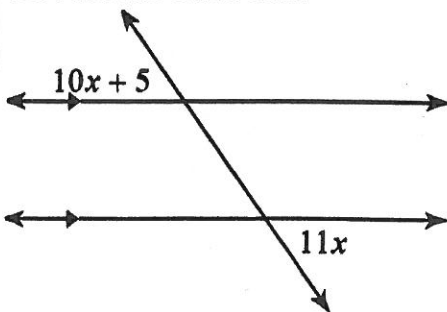
17. Solve the equation by taking square roots:

$$3n^2 - 4 = 188$$

18. Solve the equation by taking square roots:

$$24 = 3(x^2 + 7)$$

19. Find the value of x :



20. Find the value of x :

